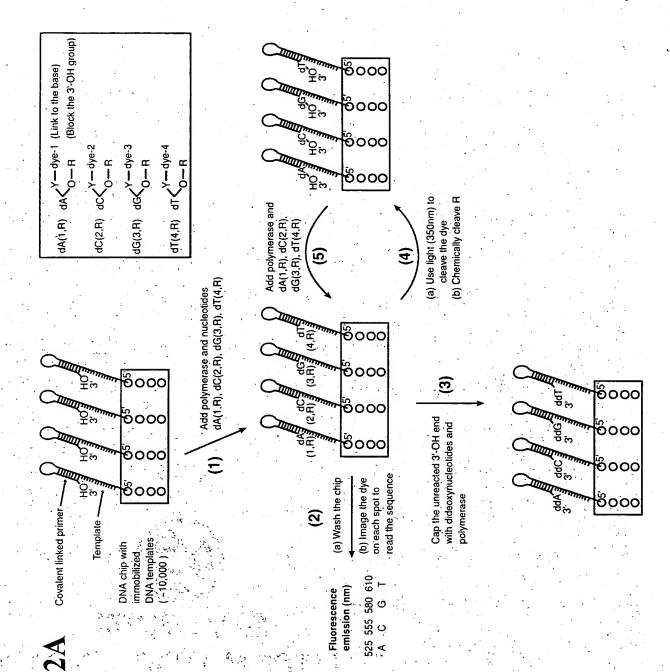
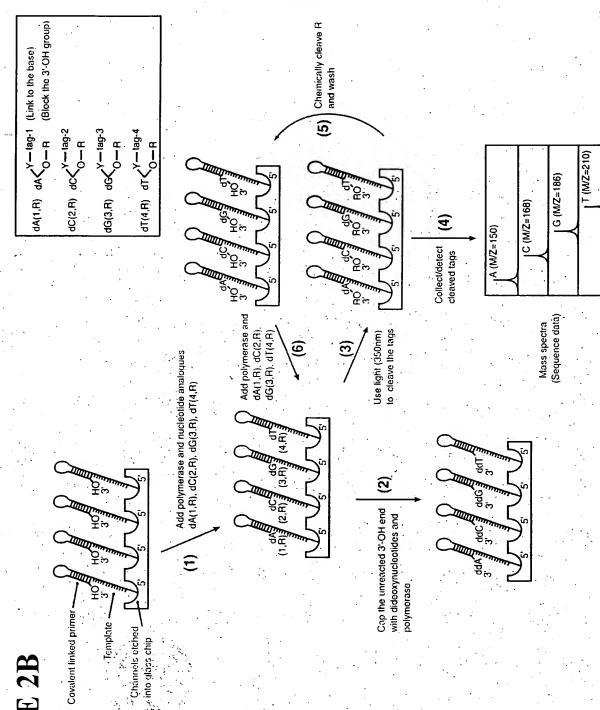
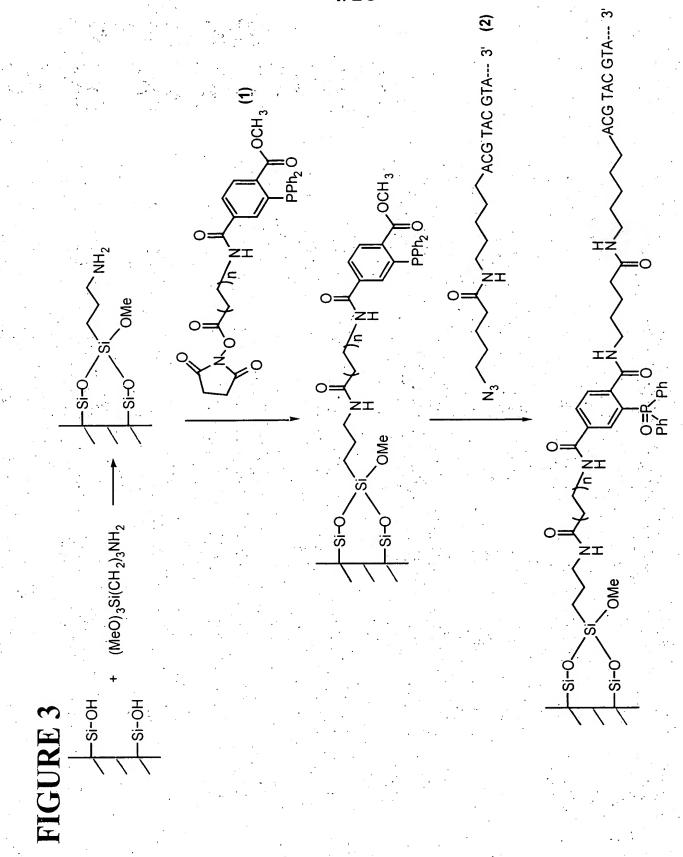


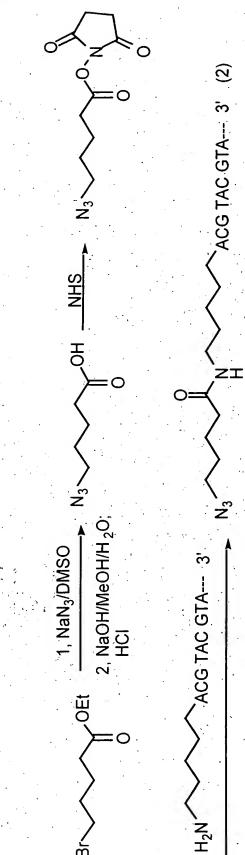
Asp = Aspartic Acid

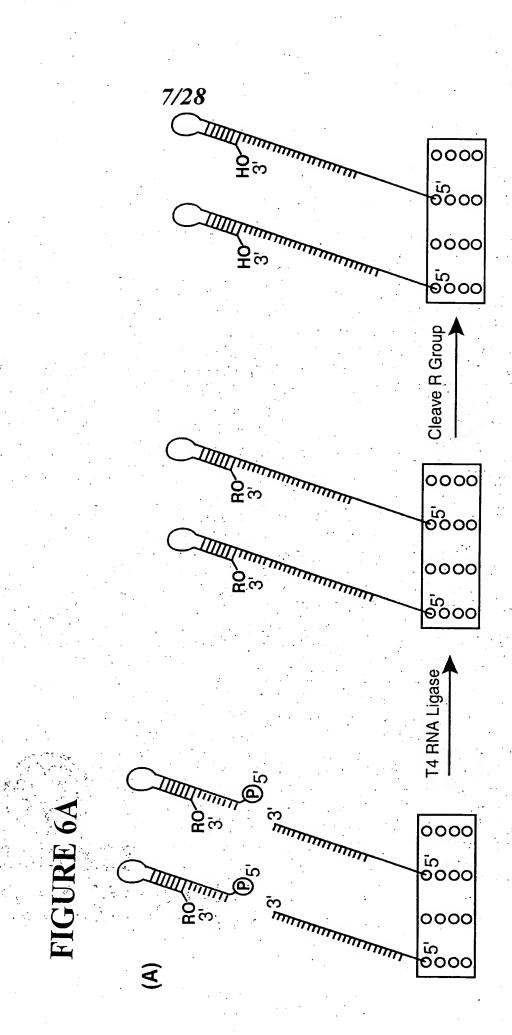






*TEA = Triethylamine,**NHS = N-Hydroxysuccinimide





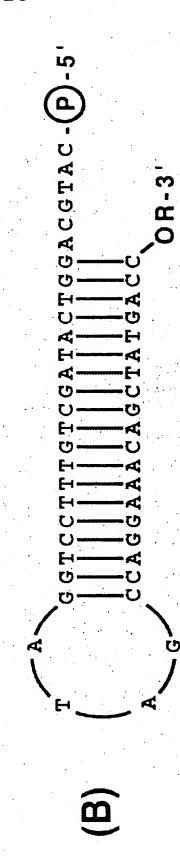
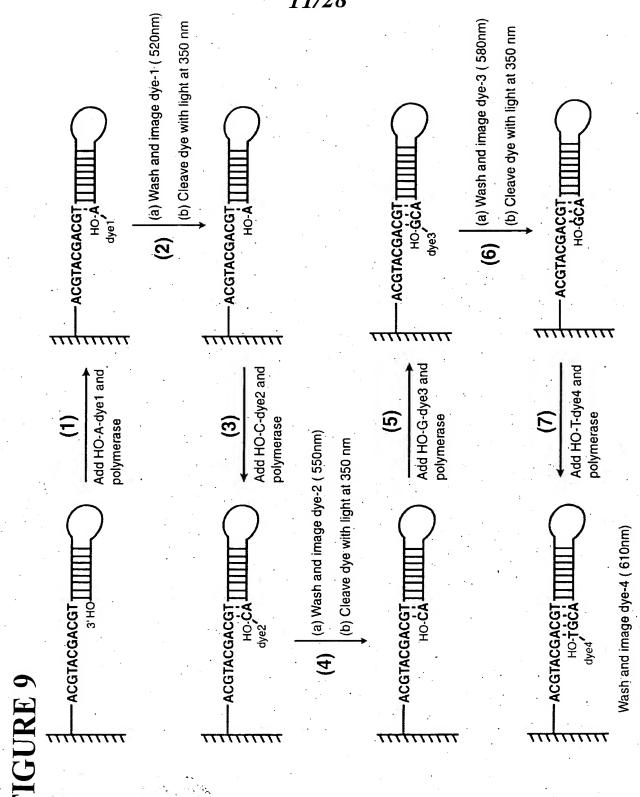


FIGURE 6B

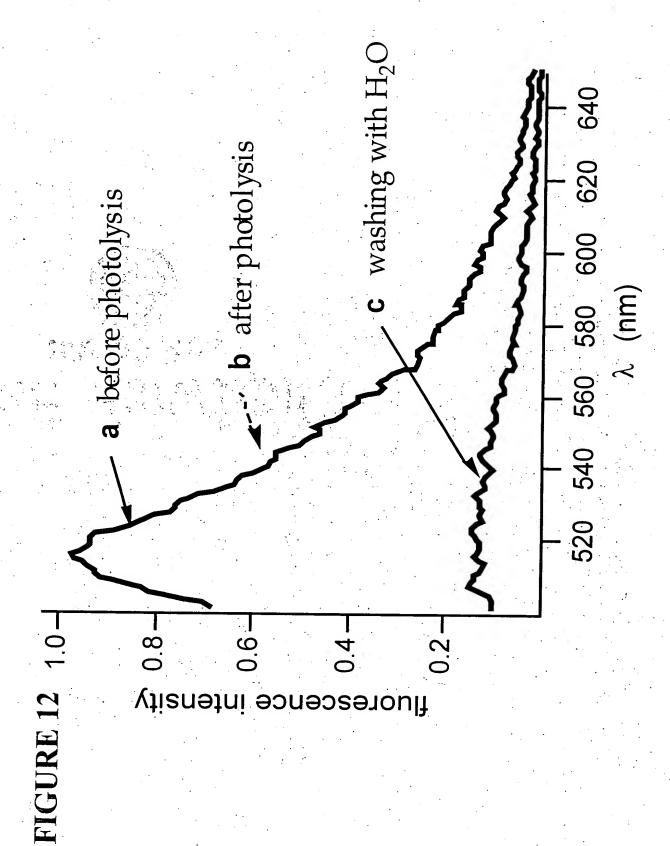
Photocleavable Linker

 $R = H_1 CH_2OCH_3 (MOM) \text{ or } CH_2-CH=CH_2 (Allyl)$

Photocleavable Linker



Amino-Fam



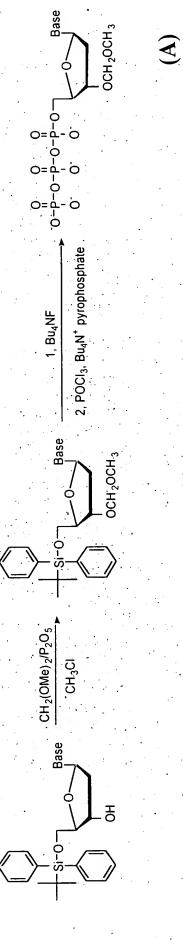
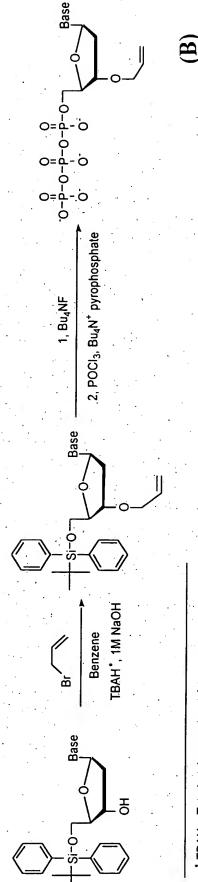
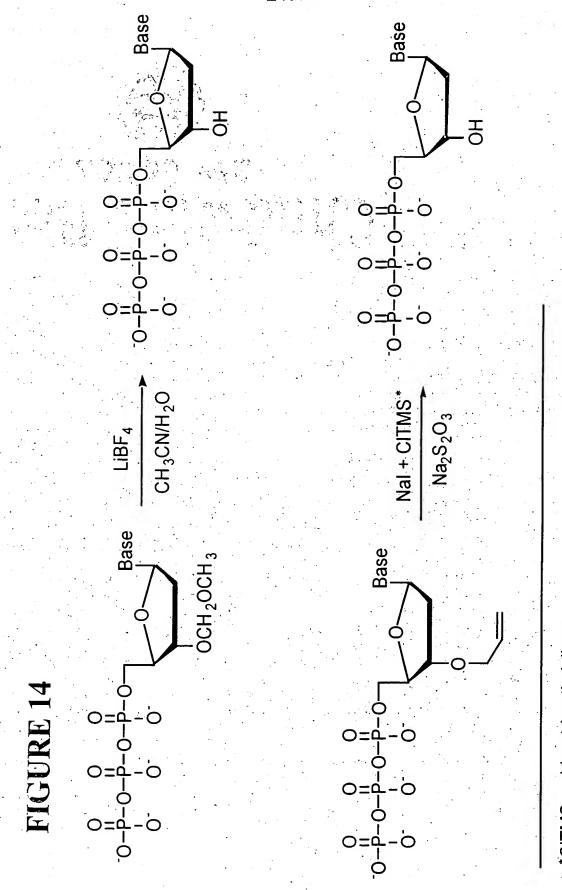


FIGURE 13A



* TBAH = Tetrabutylammonium hydroxide



*CITMS = chlorotrimethylsilane

R = H, CH_2OCH_3 (MOM) or CH_2 - $CH=CH_2$ (Allyl)

	ET Dye ₃ ET Dye,	mι	0 Nr(0;H)		e vo	المحرير O	13 H3CH2CHN CO WHCH2CH3 CI CO	HO3S, CON HO3S, COH HO3S,	~~ ~~
	ET Dye,	λ _{բm} = 560 nm		00 5 	HN OO	دومارک بر المحالی الم	н ₃ сни (С) С (С) мнсн, сн ₃ (С)	HO ₃ S ₁ S ₂ S ₃	0
FIGURE 13B	ET Dye,	λ _{em} = 530 nm		D D D D D D D D D D D D D D D D D D D	HN O NO NO	Fam-CLFam	HOO2 COOH	HO ₃ S ₂ O ₃ O ₃ S ₂ O ₃ S ₂ O ₃ O ₃ S ₂ O ₃ O ₃ S ₂ O ₃ S ₂ O ₃ O ₃ S ₂ O ₃	<u>}</u> -°

IGURE 15E

MW=120

MW=156 (G)

1. HNO₃ 2. NaBH₄

Photoactive Mass Tag

MW=180+47 (T)

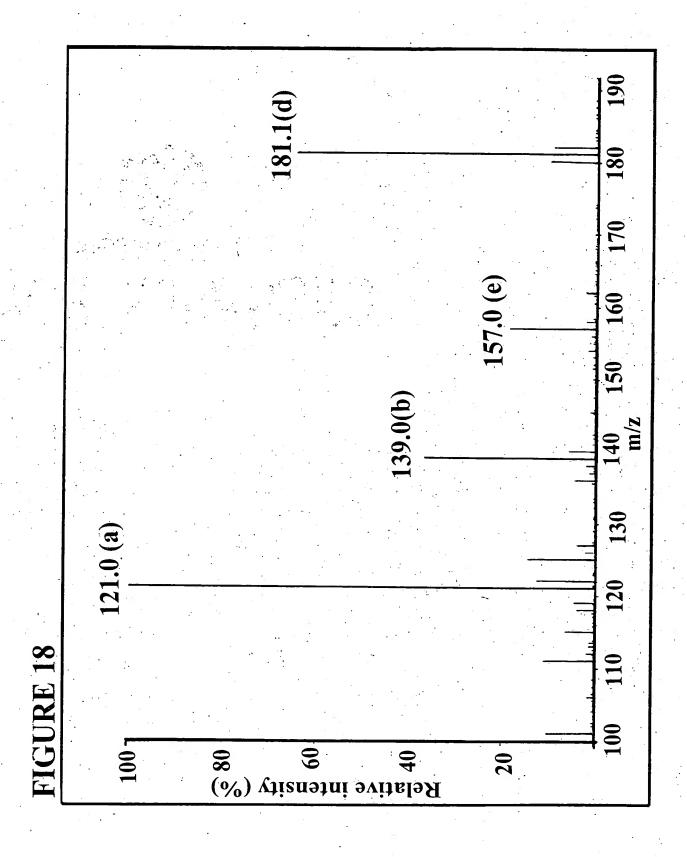
OMe

MW=180 (T)

MW=138

MW=120+47 (A)

MW=138+47 (C)



(Nitro-Benzyl)-dATP

F-(Nitro-Benzyl)-dCTP

2F-(Nitro-Benzyl)-dGTP

2(Meo)-(Nitro-Benzyl)-dTTP

$$ACTCGAGGTACG-O \longrightarrow + CO_2 + ON \longrightarrow + CO_2 + ON$$

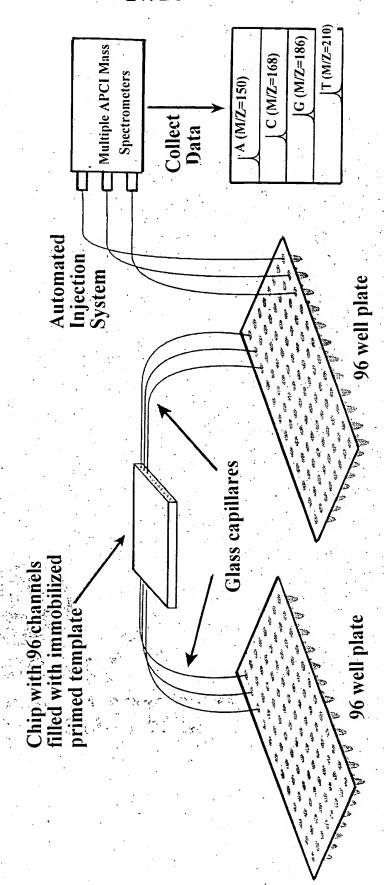


FIGURE 2

